

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2007; month=11; day=26; hr=14; min=29; sec=27; ms=114;
]

=====

Application No: 10539565

Version No: 1.0

Input Set:**Output Set:****Started:** 2007-11-05 19:29:16.441**Finished:** 2007-11-05 19:29:20.471**Elapsed:** 0 hr(s) 0 min(s) 4 sec(s) 30 ms**Total Warnings:** 225**Total Errors:** 0**No. of SeqIDs Defined:** 266**Actual SeqID Count:** 266

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (42)
W 213	Artificial or Unknown found in <213> in SEQ ID (43)
W 213	Artificial or Unknown found in <213> in SEQ ID (44)
W 213	Artificial or Unknown found in <213> in SEQ ID (45)
W 213	Artificial or Unknown found in <213> in SEQ ID (46)
W 213	Artificial or Unknown found in <213> in SEQ ID (47)
W 213	Artificial or Unknown found in <213> in SEQ ID (48)
W 213	Artificial or Unknown found in <213> in SEQ ID (49)
W 213	Artificial or Unknown found in <213> in SEQ ID (50)
W 213	Artificial or Unknown found in <213> in SEQ ID (51)
W 213	Artificial or Unknown found in <213> in SEQ ID (52)
W 213	Artificial or Unknown found in <213> in SEQ ID (53)
W 213	Artificial or Unknown found in <213> in SEQ ID (54)
W 213	Artificial or Unknown found in <213> in SEQ ID (55)
W 213	Artificial or Unknown found in <213> in SEQ ID (56)
W 213	Artificial or Unknown found in <213> in SEQ ID (57)
W 213	Artificial or Unknown found in <213> in SEQ ID (58)
W 213	Artificial or Unknown found in <213> in SEQ ID (59)
W 213	Artificial or Unknown found in <213> in SEQ ID (60)
W 213	Artificial or Unknown found in <213> in SEQ ID (61)

Input Set:

Output Set:

Started: 2007-11-05 19:29:16.441
Finished: 2007-11-05 19:29:20.471
Elapsed: 0 hr(s) 0 min(s) 4 sec(s) 30 ms
Total Warnings: 225
Total Errors: 0
No. of SeqIDs Defined: 266
Actual SeqID Count: 266

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Tarja LAITINEN et al.

<120> ASTHMA SUSCEPTIBILITY LOCUS

<130> 0933-0249PUS1

<140> 10539565

<141> 2007-11-05

<150> US 60/435,846

<151> 2002-12-20

<150> US 60/437,895

<151> 2003-01-03

<150> US 60/458,767

<151> 2003-03-26

<150> US 60/486,000

<151> 2003-07-09

<160> 266

<170> PatentIn version 3.0

<210> 1

<211> 129017

<212> DNA

<213> Homo sapiens

<400> 1

cggcaaatta aatgtagcta aagaagaaat cattgaactg gaatataggt ccaaagaaaa 60

taattagatt gaagcatgaa aaaagaaagg acaaaaaata caaaaagaaa ataaaaagca 120

tatggaagta gtgaaaagga ctcccagaaa aagataaagc ccagactgga tagaaacaac 180

acttatagtg gccataatt ttcccaaact ctttaaagac atcaaaacac aaatacataa 240

agcaccataa aggacaacag caagcaaaca aacaaatata aagagaatta aaacacatga 300

aatgataaga ctaagtaaaa gccccataat cttgaatttg aaatgaaaat atttatgcta 360

gctcatgatg tattttatgc ttcaggagtt ttttaaggata cataccaaaa tgtttatagg 420

taaactgata acatgtctgg gatttacttc aaaataatth gaggctgggg gtgggttgag 480

atgtatagat gtacaaaatt gatattgata actgttggag gttggtggtg agtacattgg	540
attctttatt ttttttatac tattctctct acttttatgt aagtttaaga tttttttcat	600
aataaaattc aaaacaaaat tatgcatgat tataatgaaa caaaataaag agatctgggt	660
agttaaagat gttaaagtcc ttggattgcc tggatgtagt aaaagtacta atttctatta	720
gattttaatg tcaaggaggt gtgttaaaat ctctaaagta atcctcccaa attatgaaaa	780
ctgacattac tagcaagcta aagaaggat aaaatgcagt atttgaatat gcaaatatat	840
atgtttatat atagagttat tccccagtat ccatggagga ttagttccag aatcccctgc	900
caatacaaaa attcgaggat gcttaagtcc cttacataaa atagatagta tttgcatata	960
acctacatac accctcctgt atactttaag tcatctctaa attacttata atttctaattg	1020
caatgtaaatt tctatataaa aatttttata ctatatctct aaaatttgta tcattttatt	1080
attgtattgt tattttatac tttcttaata tttttaatct gcagttgata gaatccatgg	1140
atgtggaacc cacagataaa aagggccaat tataatacat acatattata taaaatcaat	1200
ctaagttaag acaggagaga aaaaatatta gaattattag aacaagtaag aagaataggc	1260
cagtacactt aacctcaaatt gtatcagtaa ttgcattaat tgtaaatgga ctaaataattc	1320
ccattaaaat aacaagattg tcagagtaga tttttaaatt acctatttta atttgtttat	1380
aaaagggtgta caccataaat aaaatgatgc aggttaaaat taaaaggaaa aggatggtaa	1440
agtaaaatga taaaaaataa tgaaacaaaa caaaacacaa agtaaaagta agccaatgca	1500
gctacatatg tgtatcaaaa gtttataaat ttgctgtgat tcttggaatc acttgtagct	1560
ttatctgtgt cttagaattt gctttgaaag gaatacaaag acaggagggc ttctaaagct	1620
agtaatgttc tatttcttga tcttgcttgt agttacgtgg gcgtgttcct cttgtaataa	1680
ttcaccaaatt tatatactta tgattttgta tacttttctt tatgtgtttt atttcaatac	1740
aaagtttatt tacaaaatat atcacattaa tccagggcag gggttgcaat ctcaaattggc	1800
tttaggaatc aagcaggcaa tgaatgtaaa catgtaaaag agccaagggg aagagacaga	1860
atgaaaacag agataaaaac cagagaatga atgccctgcc taaagacatt aaaatcaatt	1920
tttgtcaaac actgtgctga tcaaacaaat cacacatgca ggccagattt gacccaaggg	1980
tgactttctt acaacaactg atatataaaa tttaaacatc agaatttgaa aagtgtgcca	2040
ctataaaatt ctagcccacc tctgaagtat gaacccacct tcaatttggt aggtagaata	2100
ttaatcttta ctggtggatt gtgagaagtg aggccaagaa gttggggagg ttaacattta	2160

caatggttta gacaaatcat atgtttgaca aggtttaaaa tcccttctgt tcaaagaata	2220
tcttatatta ggattttctt ctctaatagt gtttattatt gtttttatta gtataatttt	2280
taaagaaatc tgaactattg cacgcctcag agaccataac agtgagaaca aaaatataaa	2340
ggaaaatttt caaatgatgg aaagtgtaac ccatataacc cgaaatcttc atgattttca	2400
gatgaccatc tgattaagga gaaaagtcaa gataagcaca tattcatatc tgcttatttc	2460
tagaattgtt ctatcagaag accatgaatt ggtcatatga ggggaagaaa cactgacatg	2520
atactggctc tattaggatg atattaaaag aggctgctgg ctcaagctta gcatggatga	2580
gttgttctca cataaagatg ctgttattga ccagggtgtgg tggctcacgc ctataatccc	2640
agcacttttg gaggcttttg tgagtagatc ccctgtgtcc aggagttaa gaccagcctg	2700
agcaacatag tgagaccctg tctctactaa aaaatttttt aaattaaaag ttaaaaaatt	2760
aatgatgtt gctattgtta atgcattcct gcaatgctaa catgctttca taaatatact	2820
tatgatttta taggtgtttt cctcttagcc tcaagaaggg agatgtttta gtctagggac	2880
tgtcataaca aaataatata aactgtgtgg ctcaaacaac agaaatztat ttctctgcag	2940
tcctgtaggc tgaaagttta acattagggg gccagcatgg tgtggctctc ttctggggtt	3000
gcagatgtca ccgtctcact gcatcctcat gtggcctttg tgcaatgcct ctgcacaaag	3060
agagagaaac agcaagttat gtgccgtctc ttctgtagg ctactaatc ctatggaatc	3120
agggcccccac ccttgttaac cttaattatt tccacagagg tcatatgttc aaatacagtc	3180
acattgggag ttagagattc aacatataaa ttttagggga atacaaacct tcagtctgta	3240
acagggaaca gaggtgctag aagaaatgta gtagtagcaa aagggtgggt ggggagataa	3300
taggagcttc atatgtcttg ctaagaagtt caggctttgc ttttagcaca gccctcttc	3360
tgctagcttt gttcaggcca ccatcacctt tgatgcagat tactacaaaa gccaccaag	3420
gtgtatgaaa tgagaaaaca catacttaaa ttaacccatg gccaggtttt gctggtaact	3480
tgggaacaca gtaagggaag gaaaataact ttgttgtgga gagggcaaac caaggaaggt	3540
cagaaagaca tagagacagt ggaagctcaa ggaaccggag gttgtccca agtcataagg	3600
cggatgtaac gagagcacca gaacaacaga gctggaagga aggaaggaag gaaggatatg	3660
tttagaaagc aagatgttcc cagatgaata ctgcagaggt agtataactc agtgcaacga	3720
ttgtactggg taggcaaggt aggggtggcag ggaaagtcac tagcaaacat ggccacaata	3780
atggaaacta aacttttgtt ttaccatgca ccaggctctg tgctacatgc tttctgtaga	3840
tcctctcatt taatctcac acagggattt aagcctgaag tttttttcag agaagacata	3900

caaatcccaa gtaagagcat gaaaagatgt tcattagcat tagtcattag aggaaatgca	3960
aatccaaaga tcagggagat acgacttcac accttcaaga atggctattc ccctataaaa	4020
taatatacta aatcactctt tgaaacataa cattttccac aaactcacct ctttgaattc	4080
acattttgct ttgccagtgt tttatgttat tcagacatga gtttgaatct cagcatttct	4140
acttctgagc cctatgacct atgaaaagtg acaattttctc tgaatatcaa tttcccaatc	4200
caaaaaatgg gaatacctct tggagttgtg gtgaggatta aataagataa tgaatataaa	4260
gtgcctagta tagtaagagg catattattg ttcaataaat gctagctgtg aatgctactg	4320
ctatagtatt ttcattcact gtagaaatga ttaattttaa ctcttcaag taacttacta	4380
aagagtgaag gtcttccaaa aggcttgaat ttactgcaa acctctttcc ttgttttget	4440
cttttattca ggacaatata ctttgctcag gtgtgtcttt gactctcaag cattgcttta	4500
aagaatgacc agactttgtc atataccatt cttaaaggag ttcaggacat gccaccccaa	4560
aatatgctgc tttcatatat tgattatfff gagctgatag cacttcaaca gcaaatgcaa	4620
gagagacttt ttcggaactc agctgcctaa aaacagatcc tccaaaagaa attcaattgc	4680
catataacct ctccctggga gttttattaa tcagcaaaga tacactttta tcacaaaaca	4740
ggaaactgga agtcaacacc acctacagaa aaactttttc ataaactgtt atatctcca	4800
ttgattcttc taaaaacca ttcacttttc cccagaatca tttactccac cctaagtgc	4860
ttacatcacc cctcccatc cctgttaac acagtatgta agctctcaaa tctcttttag	4920
gagtattcat tattttcttg tggcacccca tgaacataat attaaaatga atatgccttc	4980
tctcttatta atctgcctgt tgtcagttta tttcatagac acagctatcg aacctaggag	5040
agtacaggga aattctttcc tcccctatat gcttaaatca taagattcaa ctgacatcag	5100
caatgaaaca aacattcaga aaactaaatt cagagacatt atatctgget tttctgaggg	5160
agaataataa gaactaatag gcattgtcag gtaaggcaat acagatgttt ttaattaaat	5220
gatgtttttt caccatgacc cacatcttga aaacaccttc ctaattaaag accagtagtc	5280
ttgagtgatt ctttgaagaa catttttact tccatttggt cttttcttta ttgagttgat	5340
gaatctgctg gaattagatt cagegcacat aacataaaat ccaaataatg ctggcttaag	5400
ttcataagga tttattttta tcttatgtaa agaagtccgg acgtaggtaa tccagggtc	5460
gtgctgcatt ttcttaccat tgggaacca ggctcctctg tatttctact gtattaaagg	5520
actgtcacc ccaagttcag ctcatggtac agatggcggg tggttcaaga tgactgctag	5580

aacatctgtc atcatgccca aattctagcc agcaggaagg aagaagggag gaaggacaga	5640
ggggctcata tcagctcttt gtctctctct taattggcat tgccagaatt cccaccatt	5700
agtttttcct tgcattctcaa tggtaacgtc taagtgaaaa aaagcctggg aaatatatttc	5760
atttattatt attttttttaa cccaggccca ttggccagaa taaaaccage ttccttttcc	5820
taaggaagaa ggagaaatag aattaaggaa cagtctctgg catagcttgt tctccatact	5880
tttacttcca tcagaactg agaagtttag acaacaaatc tctttttgtc caccatttgc	5940
ctgctttgag aatgcttctt ccagagtgtc acgctctctt ctaatgactt attatcttgg	6000
cagactgcac ttttcacacc ctccataggc tgcagtgatc cattggatga ttgtcccatt	6060
atgtagataa gtctctattg ctggctgttt atgcttttct cccattttta ggctattagc	6120
aatcctgcaa taaacattct cataattaaa tttgtatgag aattctgtat tattttattta	6180
gaaaaagttt atagaagtgg acttactgca tcaaagaaag gcacttttgt ggcttttgaa	6240
ttggctaattg tcttttttgg ttaccecaagt taaaagatga tggaaaatgt cgggggacaa	6300
atgctctaga acccgctagc atagacctac actaagtctt attcaaaaag gtccctgtaa	6360
acaaaaccct agttgacttg cagtagctac agaatacataa ctggtttttt gagagcagag	6420
attctctccg ttctctccct agtgatactt agccagctac tggtaatttg cttattatca	6480
aaaggagcgg ccaggcgagg tggctcatgc ctgtaatccc accacttttg gaggccaagg	6540
cgggcgggatc acgaggtcag gagatcgaga ccatcctggc taacacggtg aaaccccgtc	6600
tctactaaaa atacaaaaaa tcagccaggc gtggtggcgg gcgcgatggc aggcgcctgt	6660
agtcccagct actccagagg ctgaggcggg agaatggcgt gaacccggga agcggagctc	6720
gcagtgagcc gagatcgcg cactgccttc cagcctgggt gacagagcaa gactccgtct	6780
caaaataaat aaataaataa ataaataaat aaataaagca tttttttttt cacttttagcc	6840
agcgcatcag agaagaacct acacttgatt gtcttatttt tccccctaca atgcccagag	6900
cagtattcac acattcatga aaagaaaaca catcacttag aacattcgaa tagagcacgt	6960
gtttttattt tgctcttcta tgttttacct ccacttctcc acaattttga tcccttcaaa	7020
aaaaaatctt aactaattat tctctatata ttctattagg aatcttggt gtagacttaa	7080
tcttgagggt agaaagaaaa tagatcttga agccactatt ttggcacatt ctgtaattct	7140
tagaatttcc attctaacaa ttttctggat gaatttaata accgtttata ttttatgagc	7200
taaagtgcc attaaaatta ttcatttacc atctttaaga cttacttgtc tgttttattc	7260
aatgcaata aaaatgcgga actaataaga gtaactcccg atgagtgttc aacaaagaaa	7320

agaaagaaaa	catatttttt	ggcgcacatt	caaatcattt	cctttttctg	gtagggccaa	7380
atcttctcat	attgggaaag	gaaattagct	ttgcttcaaa	gcactttctg	aagagcaatt	7440
tactaatgag	cttaggaatt	ctctgccttc	ataacctcc	tatacattac	ctgaacgcag	7500
agaaacttga	gacgttcagc	aagggaggta	agggcaggag	tgttgaggcg	tccagggtccg	7560
tctgtggagt	tcactgccac	cttctgtgt	ggatttcagt	ccttgttttc	ctggattttg	7620
agttgcattc	tcaatacatt	atttttattt	ttattcatag	tgaaaatatt	gaagactgaa	7680
ttttttctga	attcatacaa	tttatatgac	atgttatttt	ttattttcta	aatattttac	7740
tgttgaagta	gttcctcttt	cacccaaaaa	aactaatagt	ttttgctgtc	tttttttaat	7800
ttctacgtga	ccatttcttt	aatattttgt	aattcacatt	taattttatt	gccttgtagt	7860
caaggaatat	ttctgaaagg	acttctgctc	tttggaactt	attaagagtg	tctttgaggt	7920
ttaatatgta	attattatct	taaaaatatt	taatgtatac	taaaatgtaa	gacacaattt	7980
attgctgtgg	aattaaacaa	agaccatcca	aatgagaaca	agcaatggct	atttactcag	8040
agtttgggag	tcagcccaca	gtttcttgtg	ttgacagaga	ctcaaaaggc	tgagtggaaa	8100
agctttgcaa	gggggaaaaa	aaggcagggt	ctcagctatg	cctgatttgg	aggtgctgg	8160
cctaggggaag	ttgacctgaa	gcacagcatc	ttatcggatt	gcttaagggt	gcatatttac	8220
ctttctccta	ttggtcctaa	gttagaagca	agggaaacaa	ttaaaggagc	tatcagttat	8280
gaaccaagtt	ctgggtttgt	tgggctaatt	gctatgggtg	tattgttttg	cttctgagc	8340
tggttgctgc	aggttggtga	taagagttct	attttatgta	tatgggtctg	ccattgtcta	8400
tatgttcagt	ctctcaatgc	attatttgta	cttattcttt	tgaatttgcc	tttactaatt	8460
atggtctcta	tattgtctct	ttttatatac	atattttttg	cctgtttaac	gtatgataga	8520
tgactaaaag	tgctattaaa	aactttcaca	cttttggttg	gacgtgggtg	ctcatgcttg	8580
taatcccagc	actttgggag	gctgaggcgg	gcagatcact	ggaggtcagg	agttcaagat	8640
cagcctggtc	aatatggtga	aaccccgctc	ctattaaaaa	tataaaaatc	agttgggcat	8700
gatggtgcac	gcccgtaata	ccagctactc	aggaggctga	ggtgggagga	tcgcttgaat	8760
ccaggagggtg	gaggttgcag	tgagcaggga	tcacgccact	gcactcctgc	actccagcct	8820
gggcagcaga	atgagactcc	atatcaaaaa	aaaaaaaaaa	aaagagagaa	aagaaaagcc	8880
tttcacactt	tctctcatct	tttagtattt	ttgatcaatg	tttgttttat	acatttcaat	8940
ggtttatttat	ttggttccta	aaggctcctg	attagcatat	ctttaatgta	tgtttgtgta	9000

tgtatgttga tctctctctc tctctctctc tctctcatac acacacataa gtcttttcat	9060
ttattagctt tgctttaaac tttgctaata tgatattaat attatgttta tctatcttct	9120
ttttattgca cttgtttgcc aagcaccgaa ctaagcattt taaataatat cacatttttg	9180
taactgtttt ggcatttatc ttcttcattg tgactttact tgaaataatt atcaatgtgt	9240
atttctatat ttgagtgttt caatacttat caagagtttt cttccccatt cttggttcct	9300
gtgtttcgac acagctctca actttctgta gtactttggg tagtatTTTT tttttcaaga	9360
agtcattgga taagattata aacacctggc atttctttat gagccttttt cttcactcca	9420
caacaataat gatttagatg ggtatagaaa tcttgaattc ataactcaaa tctccataga	9480
tgttgctcca ttttaattctg gtattttgtg ttaccaaaaa aaaatctaaa gtcagtccaa	9540
gatttctttc ttgatagggt atccaatTTT gtcttttggt tctgattttt ttttttttag	9600
atttcatgct ttcaccaggt tatgtctatt ttttggtcgt ctgttatgtg agttctctga	9660
gctgccatat gctcttttga tctgtcgatt aatgtgaatt cgtaggttat tttctttatg	9720
tctttgaata cagattactt accatttatt ttaatcttat cttcagggaac tctaactgtc	9780
tgtctatatg ttagtaattt tggcctttct gtcatcattt aaatatcttg gtcctattct	9840
tctacgtggg aagaataatt tatactttat taatcaataa tttgattttg attcaatgat	9900
tagcagtgtc aattctactt tttattgttt ctgaagtatc ttaaagggtg ctttgtctat	9960
gaaaagtttt aaaacattct tcctttgtat tatctgggtgc ctttttattt ctgtcagctt	10020
cttgggtgtt ccttctcac aacctatcta atgtcttatt atctcgtctt tcacctttaa	10080
ttccatactg tcaaagtgtc cccaaaatgt aaaaagaatg caaaatatgc gctaaaattt	10140
cagggtttct tgagctaaag tttttttgaa tatatatctt ttttctgata tttttgtgct	10200
ctttttaact caatgctagg aaatctctct ctgtctcata tgtttcaccc atctactgaa	10260
agttttttaa ttggctaaca tctgaataaa tgcacatatc ttttatttgg attattccta	10320
cactagctgc acaatgccat cattgtttcc tccaccaaga agagctgggt gggccatgtt	10380
cattgagaaa atcagtttct ctcaaacagg agaaaaaatg gcattgtcct atcgctatgt	10440
gaataattca actaaaaaga ataactgttc tcccagtaaa gctttttctt tcttagaaaa	10500
attgggtttc tttatatctc atgcctttgc ttcagagcac aatatgtgac ctgggaaagg	10560
catttaccct tggtaaacct tcattttctc atttctaaaa ttacaagggt tatctccatg	10620
atcttttagga agccagaact gatctgggtc taatggtcct ttgattctaa ttagaaattt	10680
ccaactgcaa aagttgaggg ggattcttac atcttcagaa gccaaactaat taaacaactt	10740

ttgctgtaat	gagtgtcagt	cacctttatg	aatcagcttg	tcacttaata	atagaaatag	10800
ctggcttctg	gcccattgcag	aaggaatgta	gaaaatagac	tatagtaaca	agctgactcc	10860
cattctcctg	ttgttccttg	cctcactcag	tttccacagt	caacttagga	caattccata	10920
ctgtgattat	ttactcctgc	tttgctttcg	taattcaaca	aacagtatta	accacttact	10980
atggcgaggc	atggttccag	gtgctaagga	cccacagtgg	atttgattac	aaattacagg	11040
taaaataata	aagcaataaa	aaggataatt	ttgctttcat	catcgaaagc	tcagtgatag	11100
agtaagcttt	agactttatt	tgctcagca	atgcagcagt	ggtagagggc	agaggagaag	11160
tctcatccta	agccttgctc	ccaaggctgg	ttataggatg	ctgtattagt	ttgctgggac	11220
tgccgtaaca	aataccaaag	attgggcagc	ttaaacaaca	gaaatttact	ttctcacagt	11280
tctagaagct	agaagtcctc	tatcaaagtg	ttggctaatt	ttattttgag	gcctttctca	11340
ttggattgta	gatggctgtc	ttctccgttt	ttttcacatg	gctttttttc	tgtccatgtc	11400
tgtatcctaa	tcttctcttc	ttatgaggac	accaccagtt	atactggatt	agggcccacc	11460
cagaattacc	tcactttttt	ttcttcatta	tctctttaaa	gtccctatct	ctaagcatgt	11520
cacattgtga	aggactggag	gttaggactt	taacatatga	atttagggga	gatgcaattc	11580
agcccataac	aatgcctgc	tagtaactca	tgggaactct	cttccacatg	caaagagata	11640
aatgtgatt	tctgcaagtt	ttattagaaa	tataggaagg	aacccttccc	agcagggcct	11700
gacaagcctg	tgcatgtgcc	tcactgacat	aactaagtta	tagggtcata	tttgaactaa	11760
tccatggaac	aagacatgca	attacactga	tgagcttagg	ctgaagtcaa	atgtctcact	11820
cctgaaaatt	cagacttccc	caaaacacat	gggctgaaca	ggtaagatgg	atacttcaac	11880
tgaaagccag	ggtacttaac	aaaagcagga	gaaatagatg	ctggggaggt	aatcccaacg	11940
tccagtgcaa	atgctatgag	ggaaaacgac	agagtcccaa	acatgctgga	gcttatagtt	12000
agaggaagga	aaaattagat	ttttctcagg	gctttgggat	tggggcacct	ggcagtcagc	12060
gcctagattc	caaagcaggt	cagaagatgc	ctctgcccaa	gtattggaaa	ccttttgaat	12120
atctttgagt	attaaaaaca	ttttaacact	gcctgagaaa	agtagtagtt	atgaagttat	12180
acatttagcc	tatcccattc	aactcagggg	attgtacaca	gatcaaataa	attgcaattg	12240
tgtttcctc	cctgatattc	acataggaag	gtgagtgggtg	agcagtaaac	ttcaggacct	12300
ttaaagttat	cattgctttc	acccttgcac	cagctttttg	aggtaaatat	tcccattttc	12360
taggagagga	taatgaggct	cagagagggg	aagtggcctc	cccagggctc	tctagctgaa	12420

ttgtaaccag	cttgatcttc	cttttgaatt	ccaccatctt	gcctgtgagg	gaaaaaggaa	12480
taaggagcca	ggagttgcag	ggtcattctt	ctcctcaaga	ggcttgagag	taactaagta	12540
tctgttcaaa	acacttttga	gaatttggcg	gcctcattac	gtttctcagg	agtccttggg	12600
ggaggttaca	cttttaggat	ccccaggaat	agagtgacaa	aatacagcta	ccacaacttg	12660
gtcctgtgca	actgtgcctt	tgctcagcaa	ttactgactc	cattctgact	gaactctgcc	12720
aaaaactctt	aacattaata	attattacct	gttctcaatt	ttaataatta	agagttttac	12780
aacttccagt	gactcttaat	tcaggtttct	ttggcttact	gttcttggac	aataacagta	12840
tggtcactgt	tgcacagaca	gaagctagac	atagtctgta	tagctaactc	cctcatgtcc	12900
ttcaaactct	tcttcaaagt	tcagtttctt	ttggggcctt	ctgtgaccaa	cctgatgaat	12960
agagcccacc	agcccagac	cacagcggtc	ctgacttcct	ttactctgct	tcacttttcc	13020
ctttttcaca	gcaattgtca	cattctattc	tactataact	tacttattta	ttgaatttac	13080
cactgattgt	ttgcctaacc	tcactataag	acagggatct	ttgttttatt	ctccaagaac	13140
ttagaacagt	agttattcaa	ttaatatttg	ttgaagcaat	gaatgaacca	aatgaatgaa	13200
tgaaagatga	atataaaaat	atattatgt	cctaacactc	tactaagcat	tatgacagaa	13260
tatccaccaa	aaaaaaaaaga	tgagaaggag	aaaccattat	tcttctgtag	cagggctaac	13320
agaacatgag	cagatggcaa	acgtgagatt	atcagcacct	tctgggctag	ttcctggaaa	13380
tcagctgatt	tectgctgct	tccaaaaatt	cttaaagctt	tcagactcct	gagcaagctc	13440
ctgcaaaaca	cctattttgg	tgctgcaagc	acctgcagta	gctctctagt	cattcaggta	13500
cttgttgacc	ttaggaactc	aagccatagc	ttccacgatt	ttcaatccct	gatccctctt	13560
cagtctcaaa	ttgctgtatc	caaaaccctt	cctacttgca	atatattaga	aaggccacct	13620
tctgacccaa	tctgaaaagt	tgggtaggtt	tgtagaggat	gagtttttgg	attattccca	13680